WHAT IS CLAIMED IS:

1		1.	A method of detecting cancer cells in a biological sample from a			
2	mammal, the method comprising steps of:					
3		(i) pro	viding the biological sample from the mammal; and			
4		(ii) de	tecting a nucleic acid molecule encoding a PRC17 polypeptide			
5	comprising at	least 8:	5% amino acid sequence identity to an amino acid sequence of SEQ			
6	ID NO:2 or at least 70% amino acid identity to an amino acid sequence of SEQ ID NO:4					
7	or SEQ ID NO:6 in the biological sample, wherein an increase in the level of the nucleic					
8	acid molecule	in the	sample compared to normal indicates the presence of cancer cells.			
1		2.	The method of claim 1, wherein the polypeptide has an amino acid			
2	sequence of SEQ ID NO:2, SEQ ID NO:4 or SEQ ID NO:6.					
1		3.	The method of claim 1, wherein the detecting step further			
2	comprises:					
3		(a) co	ntacting the nucleic acid molecule with a probe under conditions in			
4	which the probe selectively hybridizes to the nucleic acid molecule to form a stable					
5	hybridization complex; and					
6		(b) de	tecting the hybridization complex.			
1		4.	The method of claim 3, wherein the contacting step further			
2	comprises a step of amplifying the gene in an amplification reaction.					
1		5.	The method of claim 4, wherein the amplification reaction is a			
2	polymerase chain reaction.					
1		6.	The method of claim 1, wherein the nucleic acid is an mRNA.			
1		7.	The method of claim 1, wherein the biological sample is a tissue			
2	biopsy.					
1		8.	The method of claim 7, wherein the cancer cells are selected from			
2	the group cons	sisting	of prostate tissue, breast tissue, lung tissue, and ovarian tissue.			
1		9.	The method of claim 1, wherein the mammal is a human.			

1	10. A method of detecting a presence of cancer cells in a biological					
2	sample from a mammal, the method comprising steps of:					
3	(i) providing the biological sample from the mammal; and					
4	(ii) detecting an overexpression of a polypeptide comprising polypeptide					
5	comprising at least 85% amino acid sequence identity to an amino acid sequence of SEQ					
6	ID NO:2 or at least 70% amino acid identity to an amino acid sequence of SEQ ID NO:4					
7	or SEQ ID NO:6 in the biological sample, thereby detecting the presence of cancer cells					
8	in the biological sample.					
	m at 1 0 1 1 10 10 10 to the make the loss on oming					
1	11. The method of claim 10, wherein the polypeptide has an amino					
2	acid sequence of SEQ ID NO:2, SEQ ID NO:4 or SEQ ID NO:6.					
l	12. The method of claim 10, wherein the polypeptide is detected using ar					
2	antibody that selectively binds to the polypeptide.					
l	13. The method of claim 10, wherein the biological sample is a tissue					
2	biopsy.					
1	14. The method of claim 10, wherein the cancer cells are selected from					
2	the group consisting of prostate cancer cells, breast cancer cells, lung cancer cells, and					
3	ovarian cancer cells.					
	47 The state of a facility 10 wherein the mammal is a human					
1	15. The method of claim 10, wherein the mammal is a human.					
1	16. A method of monitoring the efficacy of a therapeutic treatment of a					
2	cancer, the method comprising the steps of:					
3	(i) providing a biological sample from a mammal undergoing the					
4	therapeutic treatment; and					
5	(ii) detecting a level of a polypeptide comprising at least 85% amino acid					
6	sequence identity to an amino acid sequence of SEQ ID NO:2 or at least 70% amino acid					
7	identity to an amino acid sequence of SEQ ID NO:4 or SEQ ID NO:6 in the biological					
8	sample compared to a level in a biological sample from the mammal prior to, or earlier in					
9	the therapeutic treatment, thereby monitoring the efficacy of the therapy.					
1	17. The method of claim 16, wherein the polypeptide has an amino					
2	acid sequence of SEQ ID NO:2, SEQ ID NO:4 or SEQ ID NO:6.					
4	acid sequence of DLQ ID 110.2, DLQ ID 110.1 of DLQ ID 110.5.					

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1 18. The method of claim 16, wherein the cancer is selected from the 2 group consisting of prostate cancer, ovarian cancer, lung cancer, and breast cancer. 19. The method of claim 16, wherein the polypeptide is detected using 1 2 an antibody that selectively binds to the polypeptide. 20. A method of monitoring the efficacy of a therapeutic treatment of a 1 2 cancer, the method comprising the steps of: (i) providing a biological sample from a mammal undergoing the 3 4 therapeutic treatment; and (ii) detecting a nucleic acid molecule encoding a PRC17 polypeptide 5 6 comprising at least 85% amino acid sequence identity to an amino acid sequence of SEQ ID NO:2 or at least 70% amino acid identity to an amino acid sequence of SEQ ID NO:4 7 8 or SEQ ID NO:6 in the biological sample compared to a level in a biological sample from 9 the mammal prior to, or earlier in, the therapeutic treatment, thereby monitoring the efficacy of the therapy. 10 1 21. An isolated nucleic acid encoding a PRC17 polypeptide, the 2 nucleic acid encoding a polypeptide comprising at least 85% amino acid identity to an 3 amino acid sequence of SEO ID NO:2 or at least 70% identity to an amino acid sequence 4 of SEO ID NO:4 or SEO ID NO:6. 1 22. The nucleic acid of claim 21, wherein the nucleic acid encodes a 2 PRC17 polypeptide that specifically binds to polyclonal antibodies generated against an amino acid sequence of SEQ ID NO:2, SEQ ID NO:4 or SEQ ID NO:6. 3 1 23. The nucleic acid of claim 21, wherein the nucleic acid encodes a 2 PRC17 polypeptide comprising an amino acid sequence of SEQ ID NO:2, SEQ ID NO:4 or SEQ ID NO:6. 3 24. The nucleic acid of claim 23, wherein the nucleic acid comprises a 1 2 nucleotide sequence of SEQ ID NO:1, SEQ ID NO:3 or SEQ ID NO:5.

acid having a nucleotide sequence of SEQ ID NO:1, SEQ ID NO:3 or SEQ ID NO:5.

by primers that specifically hybridize under stringent hybridization conditions to a nucleic

The nucleic acid of claim 21, wherein the nucleic acid is amplified

1		26.	The nucleic acid of claim 21, wherein the nucleic acid specifically			
2	hybridizes un	der stri	ngent hybridization conditions to a nucleic acid having a nucleotide			
3	sequence of S	EQ ID	NO:1, SEQ ID NO:3 or SEQ ID NO:5.			
1		27.	An isolated PRC17 polypeptide, the polypeptide comprising at			
2	least 85% am	ino aci	d sequence identity to an amino acid sequence of SEQ ID NO:2 or at			
3	least 70% amino acid identity to an amino acid sequence of SEQ ID NO:4 or SEQ ID					
4	NO:6.					
1		28.	The isolated polypeptide of claim 8, wherein the polypeptide			
2	specifically binds to polyclonal antibodies generated against SEQ ID NO:2, SEQ ID					
3	NO:4 or SEQ ID NO:6.					
1		29.	The isolated polypeptide of claim 8, wherein the polypeptide has			
2	an amino acid sequence of SEQ ID NO:2, SEQ ID NO:4 or SEQ ID NO:6.					
1		30.	An antibody that selectively binds to the polypeptide of claim 8.			
1		31.	An expression vector comprising the nucleic acid of claim 1.			
1		32.	A host cell transfected with the vector of claim 31.			
1		33.	A method of identifying a compound that modulates activity of a			
2	PRC17 polypeptide, the method comprising steps of:					
3	(i) contacting the polypeptide with the compound, wherein the polypeptid					
4	comprises at least 85% amino acid sequence identity to an amino acid sequence of SEQ					
5	ID NO:2 or at least 70% amino acid identity to an amino acid sequence of SEQ ID NO:4					
6	or SEQ ID NO:6; and					
7		(ii) de	etermining the functional effect of the compound on the polypeptide.			
1		34.	The method of claim 33, wherein the polypeptide is linked to a			
2	solid phase.					
1		35.	The method of claim 33, wherein the polypeptide is expressed in a			
2	cell or cell me	embran	e.			

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cell or an ovarian cancer cell.

1	36. The method of claim 33, wherein the polypeptide has an amino
2	acid sequence of SEQ ID NO:2, SEQ ID NO:4 or SEQ ID NO:6.
1	37. A method of treating a disease or condition associated with the
2	activity of a PRC17 polypeptide, the method comprising the step of administering to a
3	subject a therapeutically effective amount of a compound identified using the method of
4	claim 33.
1	38. The method of claim 37, wherein the subject is a human.
1	39. The method of claim 18, wherein the compound is an antibody.
1	33. The memora of claim 10, wherein the compound is an antibody.
1	40. A method of inhibiting proliferation of a cancer cell that expresses a
2	polypeptide comprising at least 85% amino acid sequence identity to an amino acid sequence
3	of SEQ ID NO:2 or at least 70% amino acid identity to an amino acid sequence of SEQ ID
4	NO:4 or SEQ ID NO:6, the method comprising the step of contacting the cancer cell with a
5	therapeutically effective amount of an inhibitor of the polypeptide.
1	41. The method of claim 40, wherein the polypeptide has an amino acid
2	sequence of SEQ ID NO:2, SEQ ID NO:4 or SEQ ID NO:6.
1	42. The method of claim 40, wherein the cancer cell is selected from
2	the group consisting of a prostate cancer cell a breast cancer cancer cell a lung cancer

43. The method of claim 40, wherein the inhibitor is an antibody.